

AMERICAN JOURNAL OF OPHTHALMOLOGY

THIRD SERIES FOUNDED BY EDWARD JACKSON

VOLUME 41
January-June, 1956

EDITORIAL STAFF

DERRICK VAIL, *Editor-in-Chief*
LAWRENCE T. POST, *Consulting Editor*
ALAN C. WOODS, *Consulting Editor*

BERNARD BECKER
WILLIAM L. BENEDICT
FREDERICK C. CORDES
SIR STEWART DUKE-ELDER
EDWIN B. DUNPHY
F. HERBERT HAESSLER
PARKER HEATH
S. RODMAN IRVINE
JAMES E. LEBENSOHN

DONALD J. LYLE
WILLIAM A. MANN
P. ROBB McDONALD
A. EDWARD MAUMENEE
FRANK W. NEWELL
JOHN V. V. NICHOLLS
ALGERNON B. REESE
PHILLIPS THYGESON
M. URIBE TRONCOSO

KATHERINE FERGUSON CHALKLEY, *Manuscript Editor*
MILDRED SKINNER, *Advertising and Business Manager*

COLLABORATORS

CHARLES A. BAHN, *New Orleans*; EUGENE M. BLAKE, *New Haven*; FREDERICK C. BLODI, *Iowa City*; SYLVAN BRANDON, *Houston*; JAMES W. BRENNAN, *Buffalo*; WILLIAM C. CACCAMISE, *Rochester, New York*; ALSTON CALLAHAN, *Birmingham*; FRANCIS C. CRAGE, *Chicago*; BEULAH CUSHMAN, *Chicago*; RAY K. DAILY, *Houston*; RALPH W. DANIELSON, *Denver*; ALICE R. DEUTSCH, *Memphis*; LAWRENCE L. GARNER, *Milwaukee*; IRWIN E. GAYNON, *Milwaukee*; BERTHA T. HAESSLER, *Milwaukee*; HARRY HORTWICH, *New York*; MORRIS KAPLAN, *Denver*; PETER C. KRONFELD, *Chicago*; JAMES E. LEBENSOHN, *Chicago*; JOHN C. LOCKE, *Montreal, Canada*; R. T. LOWE, *Melbourne, Australia*; GYULA LUGOSSY, *Budapest*; WALTER MAYER, *Richmond, Virginia*; PAUL W. MILES, *Saint Louis*; YUKIHIKO MITSUI, *Kumamoto, Japan*; ROBERT A. MOSES, *Delavan, Wisconsin*; MANOS A. PETROHELOS, *Ann Arbor*; ERNST SCHMERL, *Toledo*; THEODORE M. SHAPIRA, *Chicago*; DAVID SHOCH, *Chicago*; OLGA SITCHEVSKA, *New York*; JOHN J. STERN, *Utica, New York*; V. TABONE, *Juliano, Malta*; PHILLIPS THYGESON, *San Jose, California*; GEORGE S. TYNER, *Denver*; A. URRETS-ZAVALIA, JR., *Cordoba, Argentina*; H. C. WEINBERG, *University Heights, Ohio*.

PUBLISHED BY THE OPHTHALMIC PUBLISHING COMPANY
664 North Michigan Avenue, Chicago 11, Illinois

COLOR ILLUSTRATIONS

VOLUME 41

JANUARY-JUNE, 1956

FAT EMBOLISM OF THE RETINA: DEMONSTRATED BY A FLAT RETINAL PREPARATION. Thomas P. Kearns	facing page 1
PREDNISONE AND PREDNISOLONE IN OCULAR DISEASE. Dan M. Gordon	facing pages 594-595
MULTIPLE ABNORMALITIES OF THE IRIS (mesodermal tissue, atrophy, and holes): WITH SECONDARY GLAUCOMA AND DEAFNESS (histologic examination of one eye). Alston Callahan	facing page 745
N.F.12: A NEW TOPICAL SOLUTION FOR EXTERNAL EYE DISEASES. Carlos Quiroz, Truman Boyes, and Arthur Sacks-Wilner	facing page 1020

SUBJECT INDEX

Explanation: Numbers in **boldface** refer to original contributions and Notes, Cases, Instruments

A

- Abducens paralysis, 543
 Ablatio falciformis, retrolental fibroplasia terminating in, 1107
ABSTRACTS: 149, 337, 559, 724, 884, 1090
 1. Anatomy, embryology and comparative ophthalmology, 149, 559, 884
 2. General pathology, bacteriology, immunology: 150, 560, 885
 3. Vegetative physiology, biochemistry, pharmacology, toxicology: 152, 561, 887
 4. Physiologic optics, refraction, color vision: 157, 569, 897
 5. Diagnosis and therapy: 161, 337, 573, 901
 6. Ocular motility: 166, 340, 576, 724, 900, 1090
 7. Conjunctiva, cornea, sclera: 167, 343, 577, 724, 910, 1092
 8. Uvea, sympathetic disease, aqueous: 171, 345, 580, 725, 914, 1094
 9. Glaucoma and ocular tension: 173, 345, 582, 728, 916, 1095
 10. Crystalline lens: 177, 348, 585, 728, 922, 1100
 11. Retina and vitreous: 179, 348, 585, 729, 922, 1102
 12. Optic nerve and chiasm: 351, 589, 1108
 13. Neuro-ophthalmology: 352, 589, 732, 1109
 14. Eyeball, orbit sinuses: 355, 734, 1110
 15. Eyelids, lacrimal apparatus: 357, 736, 1112
 16. Tumors: 360, 737, 1115
 17. Injuries: 361, 738, 1116
 18. Systemic disease and parasites: 362, 739, 1117
 19. Congenital deformities, heredity: 363, 741, 1122
 30. Hygiene, sociology, education and history: 368, 742, 1124
ACCOMMODATIONS: action sympatholytics on, 893
 hyperbolic equations of, 541
 in presbyopia, 898
 lens metabolic changes during, 891
 near-point of, 572
 paralytic, in optic neuritis, 353
 phoria and, 160, 908
Acetazolamide: See Diamox
Achromatopsia: See Color Blindness
 Acrylic lens, in anterior chamber, in ametropia, 159
 in anisometropia, 159
ACTH: effect on P^{45} uptake of cornea, 565
 in Harada's disease, 1095
 in keratoconjunctivitis sicca, 168
 in malignant exophthalmos, 321
Adie's syndrome, 733
Adrenalin, action on ocular tension, 919
Adrenosem, in diabetic retinopathy, 891
 in glaucoma, 891
Aeronautics, eye problems of, 1126
After-images, to treat amblyopia, 572
Age, effect on lens metabolism, 318, 872
Aging, dark adaptation and, 570
 disease and, 573
 effect on lens epithelium, 568
Air, into anterior chamber, glaucoma and, 174
Allen, Thomas Dyer, 715
Allergy, modern treatment of, 164
 N.F.12 solution for ocular, 1020
 prednisolone in, 593
 prednisone in, 593
 symposium on ocular, 560
 to injection of egg white, 560
AMBLYOPIA: after-images to treat, 572
 artificial scotoma to treat, 569
 causes of, 1125
 ex anopsia, eccentric fixation in, 572
 fixation pattern in, 1073
 hysterical, 1110
 selective perception in, 1070
 in strabismus, 569
 separation in, treatment for, 157
American Medical Association, Section Ophthalmology, program June, 1956, meeting, 722
Ametropia, acrylic lenses in anterior chamber in, 159
Amyloidosis, hereditary primary, 1118
ANESTHESIA: artificial hibernation, 901
 corneal, effect on pupil, 568
 for children, 903
 general, in children, 164
 in cataract surgery, 424
 retrobulbar procaine, study on, 902
 surface, ophthalmic for, 162
 topical, corneal lesions produced by, 99
Aneurysm, of retina, 180
Angiitis, granulomatous, 1118
Angiocardiography, optic-nerve sheath hemorrhage after, 339
 subhyaloid hemorrhage after, 339
Angioid streaks, classification of, 182
Angiomatosis, of retina, 1103
 diathermy for, 1104
Aniseikonia, with low refractive error, 161
Anisocoria, in tuberculosis, 354
Anisometropia, acrylic lenses in anterior chamber in, 159
 unequal corrected vision and, 899
Anomaloscope, of Hioki, 158
Anoxia, electroencephalogram in, 894
 electroretinogram in (rabbit), 894
 in central nervous system, due to pitressin, 740
ANTERIOR CHAMBER: angle, developmental anomalies of, 1073
 extraction glass from, 738
 innervation of, 865
Arthus reaction in, 151
 cholesterosis of, 1094
 effect polyethylene tubing on, 692
 epithelial cysts of, 912
 epithelial downgrowth into, 1116
 epithelial invasion of, 579
 eyelash in, 361
 flat, 177
 Diamox to treat, 582
 glaucoma, and introduction of air into, 174
 horsefly larva in, 1121
 opening of, razor blade for, 902
 paracentesis, hypertensive reaction after, 1075
 plastic lens in, 1100
 reformation of, corneal suture and, 165
 restoration of, by surgery, 176
 retention, in peripheral iridectomy, 964
Anterior limiting membrane, retinal light reflexes and, 288
Antibiotics, 905
 Neosporin, a combination of, 850
 penetration of iontophoresis, 863
 sensitivity tests on, 887
 with blood transfusions, 1110
Antihistamines, 574
 for glaucoma pain, 1099
Antistreptolysin titer in ophthalmology, 575
APHAKIA: Harrington-Flocks visual field test in, 967
 refraction in, spherical, 571
 retinal detachment in, 1102
AQUEOUS: alkali reserve of, 897
 ascorbic-acid level in, effect Diamox on, 693
 bacteriologic study of, 575, 576, 726
 biomicroscopic study of, 163
 chloride of, 567
 cholesterol crystals in, 161
 cholinesterase of, in glaucoma, 892
 coagulation of, 569
 comparative study of, 163
 corticosteroids in (rabbit), 890
 cytology, in iritis, 726
 cytopathology of, in diagnosing iridocyclitis, 1094
 drainage mechanism, 568
DYNAMICS OF: 829
 applied to effect Diamox on ascorbic-acid turnover, 522

Explanation: Numbers in **boldface** refer to original contributions and Notes, Cases, Instruments

AQUEOUS (Continued)

- DYNAMICS OF (continued)**
 effect barbiturates on, 896
 effect paraldehyde on, 896
 ophthalmotonic consensual reactions and, 690
 theoretic considerations, 383
 electrophoresis to study, 540
 fatty, in postpartum hypopituitarism, 739
 in Sheehan's syndrome, 739
FLOW: effect beta hypophamine on, 1071
 ganglionectomy and, 893
 through trabecula, 153
 in iritis, 915
 color test for toxins in, 726
 ionometry of, 197
 microscopic study of, 163
OUTFLOW: after compression test, 346
 in enucleated eyes, 600, 866
 perfusion studies on, 899
 radiopaque study of, 693
 species variation and facility of, 866
 study on way of, 896
 outlets, compression of, 920
 pathways, in some cases of glaucoma, 11
 penetration thiocyanate ions into, 563
 proteins of, 567
 radio-iodine studies of, 687
 reduction of, to treat glaucoma, 347
 sodium distribution between plasma and, 809
 viscosity of, effect hyaluronidase on, 687
Aqueous veins, in glaucoma, slitlamp study of, 583
Argentina, blindness in, 1124
Argyrosis, of anterior eye, 738
Arteriosclerosis, hypertension, retinopathy and, hormones to treat, 85
Arteritis, temporal, 741
 fatal case of, 1121
Artery, occlusion syndromes, 364
 ophthalmic, collateral cerebral circulation through, 355
Arthus reaction, in anterior chamber, 151
ASCORBIC ACID: levels in aqueous, effect Diamox on, 693
 turnover, effect Diamox on, 522
Association for Research In Ophthalmology, abstracts of papers presented before: See Ophthalmic Research program June, 1956, meeting, 721
Astigmatism, corneal, variations in, 570
 intraocular, 813
Atmosphere, pressure changes in, ocular tension and, 584
Atomic bomb, cataract in Hiroshima, recent status, 361
 chorioretinal burns due to, 1117
 detonation, chorioretinal damage from, 337
 retinal burns due to, 361
 injuries to eye, 1117
Aureomycin, in trachoma, 912
 penetration of, 153
Automobile accidents, ocular palsies and, 342
- B**
- Bacteria, retention filter for, 539**
Barbiturate poisoning, ocular sequelae of, 353
Bedell, Arthur J. Lecture, 3
Behcet's disease, 172, 363
 case of, 35
 virus of, 41
Bell's palsy, 352
Beta-rays: See Radiation
Blepharitis, marginal, Selsen in, 1115
 Neosporin in, 840
Blepharophimosis, surgery of, 61, 71, 358, 547
Blepharoplasty, 1114
BLINDNESS: causes of, 1125
 due to hexamethonium chloride, 561
 due to snake bite, 1116
 in Argentina, 1124
Blindspot, in normal pregnancy, 1120
 mechanism of, 800
Blood-aqueous barrier, permeability of, fluorescein test and, 161
 in uveitis, 726

- Blood, circulation of eye, collateral cerebral and, 335
 loss, visual disturbances after, 1119
 supply, effect on development of cataract, 567
BOOK REVIEWS:
 American Ophthalmological Society: Transactions; 1955, 1009
 Atkinson, Walter S.: Anesthesia in Ophthalmology, 1008
 Bangerter, Alfred: Treatment of Amblyopia, 556
 Bonnet, Paul: The Arterial Intracranial Aneurysms, 882
 Cecil, R. L., and Loeb, R. F. (Editors): A Textbook of Medicine, 719
 Ciba Foundation: Experimental Tuberculosis, 881
 Conn, Howard F.: Current Therapy: 1956, 882
 Davis, David J. (Editor): History of Medical Practice in Illinois, 335
 Documents Ophthalmologica, 883
 Duncan, Garfield G.: A Modern Pilgrim's Progress for Diabetics, 883
 Givner, Isadore: The Prevention of Disease in Everyday Practice, 719
 Hackett, Clara A.: Relax and See, 333
 Hughes, Brodie: The Visual Fields: A Study of the applications of quantitative perimetry to the anatomy and pathology of the visual pathways, 146
 Irwin, Robert B.: As I Saw It, 567
 Lazorthes, Guy: Le Systeme Nerveux Peripherique, 720
 Ophthalmological Society of Northern Greece: Archives, 147, 335
 Paton, R. Townley: Keratoplasty, 334
 Sathaye, V. D. (Editor): Indian Year Book of Ophthalmology, 558
 Streiff, E. B. Advances in Ophthalmology, 555
 Sturrock, P. A.: Static and Dynamic Electron Optics, 720
 Thomas, Charles I.: The Cornea, 558
 Trevor-Roper, Patrick D.: Ophthalmology: A Textbook for Diploma Students, 146
 Vail, Derrick, and Lindsay, John R.: 1955-56 Year Book of Eye, Ear, Nose and Throat, 1088
 Williamson, Paul: Office Procedures, 148
 Wolstenholme, G. E. W., and Cameron, Margaret P.: Ageing: General Aspects, 148
 Bowen's disease, of conjunctiva, 801
 of cornea, 801
 Bowman's canals, in cornea, 150
 Boxing, effect on visual apparatus, 361
 Brainstem, lesions of, oculomotor manifestations, 1077
 Brucellosis, eye complications of, 362
 eye lesions of, 735

C

- Cafergot, in hemicrania syndrome, 337**
 in migraine, 337
Caffeine, in healing chemical injuries, 895
Caralt, de Delmiro de, work of, 1125
Cardiac arrest, during strabismus surgery, 748
Carotico-cavernous fistulas, 1110
Carotid, calcification, glaucoma and, 1099
 pseudoglaucoma and, 1099
 tomography, of internal, 162
CATARACT: absorption of, 922
 after antiglaucoma operations, 917
 alloxan diabetic (experimental), 561
 complicated, pathogenesis of, 729
 congenital, gonioscopy in, 741
 due to pulseless disease, 1117
 effect blood supply on development of, 567
EXTRACTION: anesthesia in, 424
 complicated, needleholder for, 1101
 complications of, 133
 corneoconjunctival flap sutures in, 348
 erisophake for, 348
 extracapsular, Ridley lens after, 348
 eye infections after, 931, 1100
 hypton after, 1100
 in myopia, 178
 in one-eyed patients, 585
 Myanesis in, 348

SUBJECT INDEX

v

Explanation: Numbers in **boldface** refer to original contributions and Notes, Cases, Instruments

- CATARACT** (*continued*)
EXTRACTION (*continued*)
 section for, **272**
 Staph. aureus and, **901**
 suturing, corneoscleral-conjunctival flap in, **856**
 galactose, development of, 155
 effect castration on, 871
 effect nutrition on, 688
 in premature infants, 178, **310**
 Myleran produced (rats), 896
 production of, in animals, 728
RADIATION: classification, **1016**
 clinical manifestations of, **1007**
 due to high-voltage X rays, 560
 histologic changes in (mice), 1072
 histologic findings in, **1007**
 lens epithelium changes in, **1017**
 studies on, **1006**
 threshold dose level of, **627**
 secondary, surgery of, 177
 senile, electroencephalographic observations in, 729
 neuropsychiatric observations in, 729
 spear (needlelike crystals in lens), 922
 surgery of, digital pressure and, 922
 in megalocornea, 179
 razor blade to open chamber in, 902
 X-ray, cystamine and, 922
 prevention with cysteine, 1101
 Caterpillar, ophthalmia nodosa due to hairs of, 171
 Cavernous space, syndromes of, 162
 Cerebral, artery embolus, eye manifestations of, 354
 palsy, oculomotor defects in, 353
 Chemotherapeutic agents, 905
 Chiasm, injuries to, 738
CHILDREN: anesthesia in, 164, 903
 corneal transplantation in, 1092
 effect strabismus on psychology of, 1091
 idiopathic retinal detachment in, 1102
 iris defects in, 570
 reading efficiency of school, effect reversal on, **1029**
 Santiago, eye problems in, 742
 Chloramphenicol, eyedrops, 888
 penetration of, 153
 studies on (rabbit), 887
 Chlorpromazine, effect on ocular tension, 318, 728
 in eye surgery, 165
 in glaucoma, 1097
 Cholinesterase, in aqueous, in glaucoma, 892
 in subretinal fluids, 569
 Cholesterosis, of anterior chamber, 1094
 Chorioretinitis, central serous, 732
 due to atomic detonation, 361, 1117
 Jensen's, 348
 striate, 730
CHOROID: arterial sphincters of (dog), 559
 atrophy of, progressive, 726
 blood volume changes in, 539, 865
 circulation of, influence cyclodiathermy on, 318
 coloboma of, 741
 detachment of, in retinal detachment surgery, 1107
 recurrent, 172
 serous, 914
 ganglion cells in, 150
 granulomas of, 365
 hemangiomas of, diagnosis, 726
 treatment, 726
 melanoma of, biopsy in, 581
 size and shape, prognosis and, 1074
 pericytes of human, **990**
 sclerosis of, 367
 sex-linked form, 916
 Choroiditis, prednisolone in, **593**
 prednisone in, **593**
 Ciliary, artery, anastomoses with retinal, 885
 contraction, ocular tension and, 584
 body, blood supply to, injury of, 345
 tumors of, ep., **360**
 muscle, action potentials of, 895
 processes, oxidative phosphorylation in, **668**, **872**
 veins, blood pressure of, 575
 Coats' disease, 181, 1078
 Collagenous disease, 363
 ocular, 740
 Coloboma, of choroid, 741
 of optic disc, 741
COLOR: blindness, acquired after typhus, 900
 congenital, studies of, 897
 pseudoisochromatic plates in testing, 163
 deficiency, tests for, 900
 fixation and, 157
 sense, ontogenetic development of, 900
 vision, defects with macular degeneration, 1122
 in native races of Australasia, **797**
 Congenital anomalies, correlation of, 365
 microphthalmos, 741
 of anterior chamber angle, 1073
 of cornea, 1073
 of iris, 1073
CONJUNCTIVA: abnormal, in strabismus, 1092
 biopsy of, in sarcoidosis, 337
 Bowen's disease of, **801**
 bulbar, lymphosarcoma of, 344
 calcareous concretions of, 577
 capillary resistance in, 908
 hemorrhagic lymphangiectasia of, 911
 in rheumatic fever, 902
 lesion of, in hereditary telangiectasia, **672**
 lymphatics of, biomicroscopic study of, 149
 circulation of, 368
 shrinkage of, in epidermolysis bullosa, 580
 tarsal, keratinization of, keratitis secondary to, **477**
 tumors of, 361
CONJUNCTIVITIS: concretions in lacrimal passages
 and, 910
 due to APC virus, 170
 follicular, APC virus from, **231**
 inclusion, 862
 management of, 725
 N.F.12 solution for, 1030
 Neosporin in, **850**
 vernal, 577
 Contact lens, electrode, for electroretinography, 904
 prescribing, 571
 splint, in corneal transplantation, **79**
 Contrast phenomenon, 157
 Convergence, hyperbolic equations of, 541
CORNEA: action alkalies on, 1116
 and sclera, a review, 911
 astigmatism, changes in after muscle surgery, 900
 variations in, 570
 Bowen's disease of, **801**
 Bowman's canals in, 150
 Candida albicans infection of, 1073
 carbonic anhydrase content of, 564
 changes, after epidemic keratoconjunctivitis, 344
 due to riboflavin deficiency, 156
 collagen fibers in, 151
CONICAL: hydrops due to, 1076
 retinitis pigmentosa and, 366
 treatment of, 344, 1092
 damage of, due to butyl alcohol, 911
 histochemical study of, 892
 developmental anomalies of, 1073
 diseases of, examination with ultraviolet, 725
 vitamin B₁₂ in, 725
 dystrophy of, Diamox in, **203**
 endothelial, **607**
 familial, in males, 913
 ectasia, ophthalmometric examination of, 344
 edema of, 144
 iris stroma atrophy and, **607**
 endothelial dystrophy, atrophy iris stroma, corneal
 edema, glaucoma and, **607**
 endothelium of, wound healing in, 861
 fresh, viability of, **513**
 frozen, viability of, **513**
 fungus infections of, **862**
 healing, influence ascorbic acids on, 153
 herpes of, statistical study 426 cases, 1106
 X-ray therapy in, 1093

Explanation: Numbers in **boldface** refer to original contributions and Notes, Cases, Instruments

CORNEA (continued)

- hydration of, influence epithelium on, 871
- influence ocular tension on, 871
- hydrops of, due to conical cornea, 1076
- implants, plexiglass, **793**
- infections, after cortisone, 169
- involvement, by APC virus, 913
- lactic acid transport of, 871
- lesions, due to obstetrical trauma, 167
- produced by topical anesthesia, **99**
- megalo-, cataract surgery in, 179
- melanosis of, 1111
- mucopolysaccharides of, in keratitis, 153
- nerve-fiber regeneration in, 150
- opacification, corneal transplantation in, 579
- permeability in inflammations, 152
- radiophosphorus uptake of, effect ACTH on, 565
- effect heparin on, 565
- rust stains of, Versene to remove, 1025
- sensitivity of, examination of, 573
- sutures in, anterior chamber reformation and, 165
- ulcers, Neosporin for, **840**
- streptokinase-streptodornase for, **847**
- vascularization of, 564, 578
- vessels on, influence X-radiation on regression of, 894
- wounds of, healing of, 885
- erythrocytes in, 343
- CORNEAL TRANSPLANTATION:** centering, marking device for, 168
- contact lens splint for, **79**
- Diamox to clear grafts in, **203**
- donor corneas, conservation of, 901
- grafts, results in 170, 169
- viability, of fresh, **513**
- of frozen, **513**
- experimental, with corneal implant, 1093
- histologic findings after successful, 1094
- in children, 1092
- in corneal opacities, 579
- lamellar, in rodent ulcer, 170
- of frozen human cornea, **505**
- perforating, 580
- peripheral lamellar, 913
- posterior lamellar, **530**
- reverse, 724
- tissue incompatibility in, 1093
- with punch forceps, **854**
- Corneoscleral trephining, in glaucoma, **399**
- CORRESPONDENCE:**
- congenital symblepharon, **144**
- corneal edema, **144**
- eye and hand, **716**
- "First, do no harm," **332**
- fundus changes in postoperative hypotony, **1086**
- Graeco-Latin words, **555**
- operation for senile ectropion, **1085**
- so-called blindspot mechanism, **880**
- specimens of eyes, **145**
- true status of hylkema's atypical achromate, **880**
- Corticosteroids, in aqueous (rabbit), 890
- penetration of locally applied, 893
- Corticotropin, transient myopia after, 900
- CORTISONE:** 574
- action on retina, 563
- corneal infection after, 169
- effect on *Pseudomonas* infections, 568
- in chorioretinal damage, due to atomic detonation, 337
- in degenerative macular disease, 587
- in keratoconjunctivitis sicca, 168
- in malignant exophthalmos, 321
- in uveitis, 893
- retinal metabolism and, 562
- C reactive protein, in ophthalmology, **942**
- Curare, in eye surgery, 163
- Cushing's disease, eye changes in, 364
- Cyclodiathermy, influence on choroidal circulation, 318
- Cycloplegia, jimson weed in, 894
- Cystamine, X-ray cataract and, 922
- Cysteine, to prevent X-ray cataract, 1101
- Cysticercus, in vitreous, 1123

Cysticercus (continued)

- intraocular, surgical treatment of, 363
- Cystinosis, 1118
- CYSTS:** corneoscleral epithelial inclusion, **316**
- epithelial, of anterior chamber, **932**
- surgery of, **940**
- in congenital microphthalmos, **1059**
- of iris, electrolysis for, 319
- traumatic, **115, 581**
- of retina, 182, 324
- preretinal, 1102
- Cytology, of conjunctiva, in xerosis, 1092
- D**
- Dacryocystitis, nasolacrimal intubation in, 736
- Neosporin in, **850**
- Dacryocystography, 358
- Dacryocystorhinostomy, 359, 737, 1114
- Dacryops, 1112
- Dark adaptation, aging and, 570
- electro-oculogram and, 158
- Diathermy, in iris tumor, 914
- Dermatoses, pseudoglioma in, in pigment of Siemens-Bloch, 364
- Dermoids, pathogenesis of ocular, 1115
- Descemet's membrane, rupture of, prognosis in, 914
- DFF, retinal detachment after, 1108
- to treat strabismus, 1091
- convergent, 343
- DIABETES:** alloxan cataract and, 561
- eye in, **285**
- melittus, hyperopia in, **680**
- oculomotor palsy in, 1091
- retinitis proliferans in, 729
- DIABETIC RETINOPATHY:** 730, 1104
- adrenosem in, 891
- in diabetes mellitus, 730
- lipidogram in, 895
- mucopolysaccharides in, 350
- papilledema in, 923
- present concept of, 586
- Diagnosis, ultrasonics in, of eye disease, **488**
- DIAMOX:** effect on ascorbic-acid level in aqueous, 693
- effect on ascorbic-acid turnover, **522**
- effect on ocular tension (experimental), 583
- in anaphylactic iridocyclitis, **667**
- in corneal dystrophy, **203**
- in glaucoma therapy, 173, 583, 594, 916, 930, 1095
- in glaucoma surgery, 176
- mode of action, **197**
- tension-lowering effect of, 921
- to clear corneal grafts, **203**
- to treat flat anterior chamber, 582
- Diathermy, in angiomas retinæ, 1105
- in retinal detachment, 703
- intraocular vitamin C after, 569
- techniques of, 707
- Dibenzylamine, in glaucoma, 175
- Dictyoma, 360
- Dicumarol, in retinal vein thrombosis, 1104
- Diodrast, to diagnosis orbital tumors, 339
- Diplopia, strabismus and, **121**
- DRUGS:** actions of, in eye surgery, 161
- effect of various, 1071
- ganglioplegics, effect on eye, 1074
- hallucinogenic, effect on electroretinogram, 867, 1067
- influence blood-pressure lowering on ocular tension, 1099
- N.F.12, for external eye disease, **1020**
- Druzen, of the lamina vitrea, **840**
- E**
- Ectoderm, development of, malformations due to abnormal, 366
- Ectropion, senile, operation for, 1085
- EDITORIALS:** Aligarh Muslim University Institute of Ophthalmology, **713**
- Chicago clinical conference, **876**
- Federation of Eye Banks, **140**
- Friedenwald, Jonas Stein, **139**
- Marfan's syndrome, **331**
- Ocular ochronosis, **712**

Explanation: Numbers in **boldface** refer to original contributions and Notes, Cases, Instruments

EDITORIALS (*continued*)

- Ophthalmic surgery, **1082**
- V. Pan-American Congress of Ophthalmology, **352**
- Time to act, **874**
- Wills Eye Hospital: Eighth annual clinical conference, **876**
- Woods, Alan Churchill, **551**

Egg white, eye reaction to injected, 560

ELECTROENCEPHALOGRAPHY: flicker illumination and, 160

- illumination in, studies on, 1109
- in anoxia, **894**
- in hemeralopia, 183
- in hypoglycemia, **894**
- in neuro-ocular diseases, 1070
- in retinitis pigmentosa, 183
- in senile cataract, 729

Electrolysis, to treat iris cysts, 319

ELECTROMYOGRAPHY: in neurogenic palsy, 166

- of human extraocular muscles, 166
- of lateral rectus, **275**
- to study vergence, 340

Electron microscopy, of zonule fibers, **884**

vitreous studies by, 560

Electronic stimulation, 164

Electronystagmography, 339

Electro-oculogram, dark adaptation and, 158

- in fundus disease, 903
- light and, 158
- to study ocular palsies, 342

ELECTROPHORESIS: aqueous studied by, 540

- blood-serum proteins in idiopathic retinal detachment, studied by, **890**
- eye fluids studied by, 540

lens in chick embryo studied by, **896**

proteins of calves' eyes studied by, **894**

subretinal fluid in retinal detachment studied by, 564

ELECTRORETINOGRAPHY: clinical studies by, 1103

- contact-lens electrode for, 904
- effect epinephrine in (rabbit), 685
- effect hallucinogenic drugs in, 867, 1067
- flicker, **868**

illumination and, 686

- in anoxia, **894**
- in hypoglycemia, **894**
- in macular disease, 867
- in night blindness, 923
- in vitamin-A deficiency, 923
- photostimuli and, 868
- visual stimuli and, 686

Emmetropia, horopter in, 571

Encephalitis, optic nerve findings in experimental, 560

Endothelioma, of eyelid, 1114

Entropion, spastic, 359

correction of, **657**

Wies operation for, **657**

ENUCLEATION: after iridencleisis, histologic study of eye, 1100

- aqueous outflow in eyes after, 690, 866
- conjunctival suture in, 903
- eyelid retraction after, 737
- implant problem after, 355
- plastic operation for, 319

Eosinophils, diurnal variation in ocular tension and, 684

Epicanthus, surgery of, **81, 71**

Epinephrine, effect on electroretinogram, 685

Episcleral venous pressure, in glaucoma, **646**

Epithelial, downgrowth, 1116

invasion of anterior chamber, **929**

tumors, of lacrimal gland, **996**

Epithelioma, epibulbar, corneoscleral transplantation in, 911

Erythrocytes, in repair of corneal wounds, 343

Esotropia, atypical accommodative, **955**

convergent fixation disparity and, **825**

Evisceration, polyvinyl sponge implant in, 338

EYE: defects, in cerebral palsy, 353

- diseases, brain and nervous diseases and, 320
- diagnosis of, ultrasonics in, **488**

EYE (*continued*)

diseases (*continued*)

- Menkin test in, 907
- dominance, **716**
- effect boxing on, 361
- in sorcery, 1125
- one-eyed employees, 368
- research literature, hand-sorted punch card for, 692
- specimens, **145**
- tonometric compression in normal, 345

Eye-ball, hypophysis and, 562

torsional movements of, 166

Eye-Banks, federation of, **140**

program, **419**

Eyebrows, double, 1122

Eyedrops, chloramphenicol, 888

isotonicity of, 904

Eyelash, in anterior chamber, 361

EYELIDS: a review, 1112

carcinoma of, glaucoma after radiation for, 728

endothelioma of, 1114

lupus erythematosus confined to, 1114

Paget's disease of, 361

plastic repair of, 1114

retraction, after enucleation, 737

in myasthenia gravis, 589

secondary to seborrheic meibomitis, **859**

therapeutic advances for, 358

tumors of, 737

treatment of, 359

EXOPHTHALMOS: 735

diagnosis of, Fermin-Nash slide rule in, 338

due to hyperthyroidism, 130

endocrine, oculomotor disturbances in, 576

experimental, 567

hypophysectomy in edematous, 362

intermittent, 357

malignant, ACTH in, 321

cortisone in, 321

edematous, 734

X rays to hypophysis in 735

progressive, 356

pulsating traumatic, 735

F

Fat embolism, ocular involvement in, 589

of retina, **1**

Filariosis, 739

Filatov, V. P., creative work of, 1125

Fixation, color and, 157

disparity, convergence, esotropia and, **825**

fusion and, 159

heterophoria and, 541

eccentric, in amblyopia ex anopsia, 572

pattern, in amblyopia ex anopsia, 1073

Flicker fusion, in abnormal vision, **899**

in normal vision, **899**

Flicker illumination, electroencephalogram and, 160

FLUIDS of the eye: bicarbonate ion in, 867

cholinesterase in subretinal, 569

coagulation components in, 156

dynamics of, effect Ansoylen on, 688

electrophoresis to study, 540

subretinal, in diagnosis of melanoma, 337

Fluorescein test, experiences with, 161

FOREIGN BODIES: copper, removal of, with visual recovery, **128**

glass, in anterior chamber angle, 738

glaucoma after, 130

localization, radiologic slit method for, **302**

transillumination through everted lid to visualize, 905

X-ray diagnosis of, 1116

Foster-Kennedy syndrome, 352

localizing value of, 589

Fovea, arteriosclerosis and lesions of, 1106

Friedenwald, Jonas Stein, **139, 142**

FUNDUS: arteriosclerosis of, 731

changes, in hypertension, 586, 740, 923

novocaine block in, 907

in latent syphilis, 165

in multiple sclerosis, 1110

Explanation: Numbers in **boldface** refer to original contributions and Notes, Cases, Instruments

FUNDUS (continued)

changes (continued)

- in postoperative hypotony, 1086
- in pulseless disease, 364
- in Purtscher's disease, 362
- dark lesions of posterior, differential diagnosis, **975**
- disease, electro-oculography in, 903
- retinal artery pressure in, 587
- examination, indirect ophthalmoscopy in, **265**
- in monozygotic twins, 367
- reflexes, in retinitis pigmentosa, 180
- slitlamp microscopy of, 905
- tumor transplanted into (rabbit), 861
- vascular occlusions in, 730
- Fungus infections, of cornea, 862
- of eye, treatment of, 885
- with saprophytic, 867
- Fusion, fixation disparity and, 159

G

- Ganglion, cells in human choroid, 150
- Ganglioplegia, effect on eye, 1074
- Gas, intoxication, eye effects of, 361
- Gaze, insufficiency of, 1091
- GLAUCOMA: a review, 919
 - Adenosem in, 891
 - after foreign bodies, 130
 - after radiation for carcinoma, tissue study, 728
 - air in anterior chamber and, 174
 - antihistamine for pain in, 1099
 - aqueous cholinesterase in, 892
 - aqueous pathways in some cases of, **11**
 - aqueous reduction to treat, 347
 - aqueous veins in, slitlamp study of, 583
 - carotid calcification and, 1099
 - chlorpromazine in, 1097
 - classification of, problems of, 174
 - congenital, associated clinical manifestations of, 1097
 - pathogenesis, 920
 - therapeutic indications in, 1097
 - with nephropathy, 175
 - corticohalamic factors in, 1098
 - detection, in geriatric patients, 345
 - diagnosis of, Priscoline test in, 917
 - slitlamp gonioscopy in, 582
 - Diamox in, 173, 583, 584, 916, 920, 1095
 - dibenzylamine in, 175
 - episcleral venous pressure in, **646**
 - heredity and, 1124
 - iridectomy in: See Iridectomy
 - iridocyclitis in, 175
 - iridocyclitis in, treatment of, 915
 - iris stroma atrophy and, **607**
 - lens extract in, 921
 - management of, symposium on, 919
 - meteorologic factors in, 176
 - mortality rate in patients with, 917
 - naphazoline in, 167
 - narrow-angle symptoms in wide-angle eye, 583
 - nervous activity in, 1097
 - ocular tension: See Ocular tension
 - OPERATIONS: cataract after, 917
 - Elliot, gonioscopy after, 921
 - evaluation of, 136
 - functioning and nonfunctioning blebs after, 326
 - keyhole-shaped trephination, 583
 - paraglaucoma, 583
 - primary, etiology and general considerations, **207**
 - histopathology of, 1099
 - reflections on, 1096
 - screening for, 345
 - secondary, to iris abnormalities, **745**
 - to lens subluxation, 1122
 - SURGERY OF: 175, 345, 549
 - corneoscleral trephining, **399**
 - Diamox in, 176
 - in Negro, beta radiation as adjunct, 319
 - incomplete peripheral iridectomy, **1043**
 - late results of, 176
 - use gelfilm in, 920

GLAUCOMA (continued)

- symposium on, 917, 920
- tests, Blaxter's before and after Schmidt's, 173
- compression, with electronic tonometer, 346
- provocative, tonometry in, **187**
- reading, 174
- water-drinking, 174
- tolerance to high tension in, **403**
- tonography, in provocative tests for, **187**
- See also under Tonography
- tonometric compression in, 345
- traumatic, physiopathology of, 174
- trigeminal nerve in, 1097
- Glaucomatocyclitic crises, in both eyes, **1056**
- Glioma, of optic nerve, complete removal, 351
- Glucosamine, in vitreous, 895
- Glutathione, of lens, polarographic study of, 890
- Gonioscopy, 920
 - after Elliot trephination, 921
 - comparative study of, **256**
 - in congenital cataract, 742
 - slitlamp, in glaucoma diagnosis, 582
- Goniotomy, 920
- Granuloma, cholesterol-containing, of orbit, **234**
- eye manifestations of Wegener's, 355
- of choroid, 265

H

- Harada's disease, ACTH in, 1095
- neurovegetative system in, 728
- pathogenesis, 580
- Headache, 1121
 - vascular, 352
- Hemangioma, cavernous, 325
 - of choroid, diagnosis of, 726
 - treatment of, 726
- Hemeralopia, electroencephalographic studies in, 183
- Hemicrania syndromes, Cafergot in, 337
- HEMORRHAGE: artificial subchoroidal, 180
- differential diagnosis fundus lesions and, **975**
- expulsive, 339
- retinal, after blood transfusion, 732
 - in myeloma, 586
 - in newborn, 730, 1103
- vitreous, in premature infants, 588
- Heparin, effect on P^{32} uptake of cornea, 565
- Heredity, ectoblast disturbances and, 366
- in choroidal sclerosis, 916
- in glaucoma, 1124
- HERPES: infections of cornea, statistical study 426
 - cases, 1106
 - vitamin-A deficiency and, 132
 - X-ray therapy in, 1093
 - simplex, keratitis, control of experimental, 564
 - zoster, ocular tension in, 918
 - retinal detachment in, **253**
- Heterochromia, in Claude Bernard-Horner syndrome, 171
- Heterochromic cyclitis, Fuchs', 171
 - in identical twins, **766**
- Heterophoria, fixation disparity and, 541
- Hiroshima, atomic-bomb cataract in, recent status, 361
- Histamine, in subretinal fluid, in retinal detachment, 561
- Hordeolum, Neosporin in, **850**
- HORMONES: action on lens, 897
 - excretion MSH in eye diseases, 537
 - to treat, arteriosclerosis, hypertension and retinopathy, **85**
 - See also under names various hormones
- Horopter, in emmetropia, 571
 - in myopia, 571
- H-R-R pseudo-isochromatic plates, in diagnosis of retro-bulbar neuritis of multiple sclerosis, **833**
- HYALURONIDASE: 152, 339
 - clinical use, 576
 - effect on aqueous viscosity, 687
 - in ocular tissues, 565
 - influence on permeability inner Schlemm's canal, **651**
 - to treat exophthalmic ophthalmoplegia, 356
- Hydrocortisone, anti-epithelizing effect, chlorophyl and, 153

Explanation: Numbers in **boldface** refer to original contributions and Notes, Cases, Instruments

H
Hypocalcemia, 1121
Hypometropia, high, 159
Retinal image and visual acuity in, 157
Hyperopia, high, pathologic events in, 182
in diabetes mellitus, **680**
HYPERTENSION: arteriosclerosis, retinopathy and, hormones to treat, **85**
fundus changes in, 586, 740
in arterial, 923
novocaine block in, 907
Hypertropia, alternating, **438**
Hypoglycemia, electroencephalogram in, 894
electroretinogram in, 894
Hypophyseal region, tumors of, ocular tension in, 1098
Hypophysis, eyeball and, 562
Hypoxia, retrolental fibroplasia and, 151

I

Illumination, in electroencephalography, 1109
in electroretinography, 686
technique for microscopy, 869
Images, contrast, integration in forming, 572
IMPLANTS: after enucleation, problem of, 355
buried integrated, **313**
corneal, plexiglass, **793**
intracocular, prosthesis and, 904
magnetic orbital, 540
polyvinyl sponge after evisceration, 338
Inclusion bodies: See under Trachoma
INDUSTRY: eye injuries in, 368, 742
one-eyed persons in, 368
reading improvement in, 572
visual improvement in, 572
Infants, uveal tuberculosis in, 171
vitreous hemorrhage in premature, 588
Infections, modern treatment of, 164
corneal permeability in, 152
polyfax to treat, 573
Inflammations, toxoplasmosis and, **600**
Influenza, ophthalmoplegia after, 909
INJURIES: atomic bomb, 1117
chemical, early operation for, 362
healing of, 895
due to butyl alcohol, 911
grease gun, 1117
in acquired paralysis of ocular muscles, **951**
in industry, 368, 742
of chiasm, 738
of orbit, 357
of skull, optic nerve lesions after, 351
plastic repair of, 329
solar burns, **1048**
Insect bite, keratitis due to, 170
INSTRUMENTS: apparatus for visual screening, 1077
ball-joint for giant magnet, 904
case for dressings and equipment, **119**
contact-lens electrode for electroretinography, 904
erisophake, for cataract extraction, 348
fixation light, **119**
forceps, for corneoscleral sutures, **681**
grooved marking calipers, for eye surgery, **682**
hot-air sterilizer, **858**
lens supporter for ophthalmoscope, 575
needleholder, for extracting complicated cataracts, 1101
orbital compressor, 338
ptosis spatula, 576
punch forceps for corneal transplantation, **854**
to maintain airway in eye surgery, **681**
to manage chronic gut sutures, **858**
Intracranial tumors, eye symptoms in, 733
Intraocular astigmatism, **813**
Iodoacetate, eye lesions produced by, 1071
Iontophoresis, antibiotic penetration by, 863
Iridectomy, incomplete peripheral, **1043**
peripheral, with retention of anterior chamber, **964**
IRIDENCELEISIS: histology of eye removed after, 1100
tension-lowering effect in glaucoma, 175
trephination compared to, 585
IRIDOCYCLITIS: aqueous cytology in diagnosis of, 1094
Diamox in anaphylactic, **667**

IRIDOCYCLITIS (continued)
due to injected egg white, 560
glaucomatous, treatment of, 915
naphazoline to treat, 167
prednisolone in, **593**
prednisone in, **593**
Iridoschisis, 172
IRIS: abnormalities, with secondary glaucoma and deafness, **745**
atrophy, 173
autonomic innervation of, 865, 1067
blood supply to, injury of, 345
cysts of, electrolysis to treat, 319
traumatic, **115, 581**
developmental anomalies of, **745, 1073**
epithelial pearl tumors of, **929**
leiomyoma of, 543
muscle of, reversal action of, 888
neurofibromatosis of, 1095
node of, posttraumatic, 1095
stroma of, atrophy of with endothelial dystrophy, corneal edema, and glaucoma, **607**
tumors of, diathermy in, 914
wound healing of, **499**
IRITIS: aqueous in, 915
cytology of, 726
color test for toxins in, 726
bacterial flora in, 886
prednisolone in, **593**
prednisone in, **593**
Isoniazid, in ocular tuberculosis, 339

J

Jaw winking, 733

K

KERATITIS: action prednisolone in, **596**
action prednisone in, 562, **596**
corneal mucopolysaccharides in, 153
dendritic, 133
due to insect bite, 170
filamentary, 344
HERPETIC: control of experimental, 564
iodine vapor in, 170
pathology of experimental primary, **639**
in Felty's syndrome, 912
interstitial, 913
Neosporin in, **850**
secondary to keratinization tarsal conjunctiva, **477**
silver nitrate causing, 885
subepithelial, 344
superficial, epithelial loss in, 578
KERATOCONJUNCTIVITIS: APC virus isolated in, **862**
aphtosa, 910
epidemic, 170
corneal complications of, 344
in Styria, 578
relation to APC virus, 887
virus etiology of, 538
phlyctenular, serum proteins in, 154
sicca, ACTH in, 168
cortisone in, 168
sarcoidosis of lacrimal gland and, 1113
testosterone in, experimental study of, 154
Keratopathy, substrate of band, 725
Knapp, Arnold, **1084**

L

LACRIMAL APPARATUS: a review, 1112
concretions in, conjunctivitis and, 910
GLAND: cytomegaly of, 737
ectopic, 1113
effect testosterone on, 154
function of, 152, 566
myoepithelial cells of, 559
tumors arising in, 3
tumors of, 1114
epithelial, 358
primary of, **996**
X-ray diagnosis of, 359
intubation of, 1113
failures in, 358

Explanation: Numbers in **boldface** refer to original contributions and Notes, Cases, Instruments

- LACRIMAL APPARATUS** (*continued*)
 pathways, malformations of, 357
 puncta, double and dacryops, 1112
 reconstruction, 1112
 sac, intubation of nasolacrimal, 736
 tumor of, 1112
 saccharine to test patency of, 330
 stenosis, intubation in, 1114, 1115
 therapeutic advances for, 358
 Lactation, optic neuritis in, 351
 Lactic acid, in vitreous, 156
 Lagrange, a tribute to, 1125
 Leber's disease, family with, 367
 Leiomyoma, of iris, 543
 Leishmaniasis, palpebral, epidemiology of, 736
LENS: action hormones on, 897
 carbohydrate metabolism of, 564
 changes, after radiation, 861
 condensing enzyme in, 689
 culture of, 686
 dislocation of, in Marfan's syndrome, 585
 effect X-radiation on, 893
 energy requirements of, 557, 873
 enzymatic activities of, 871
 epithelium, changes of in radiation cataract, **1017**
 effect high-energy particles on, 568
 effect X-rays on, 568
 extraction, in glaucoma, 921
 glutathione content of, polarographic study of, 890
 in chick embryo, electrophoretic study of, 896
METABOLISM: 566
 changes in during accommodation, 891
 effect of age on, 318, 872
 opacities, due to microwaves, 897
 proteins producing, 567
 oxygen consumption of, 563
 polarographic study of, 890
 permeability, to glucose, effect serum proteins on, 566
 to serum proteins, 566
 phosphate absorption of, 891
 proteins of, interaction with other proteins, 567
 radio-iodine studies of, 687
 subluxation of, glaucoma secondary to, 1122
 Leptospirosis, 172
 Leukomyelin, eyedrops, 888
LIGHT: coagulation, in retinal detachment, 587
 electro-oculogram and, 158
 influence on ketosterones, 155
 metabolism and, 368
 sense, in retinal detachment prognosis, 923
 ontogenetic development of, 900
 threshold, effect ultraviolet radiation on, 687
 effect violet radiation on, 687
 Limbus, squamous-cell carcinoma of, 1116
 Lipidogram, in diabetic retinopathy, 895
 Lupus erythematosus, confined to eyelid, 1114
 Lymphangiectasia, hemorrhagic of conjunctiva, 911
 Lymphatics, of conjunctiva, biomicroscopic study of, 149
 Lysozyme, in tears (rabbit), 540
- M**
- MACULA:** aberrant vessels of, vision and, 1107
 degeneration of, cortisone in, 587
 familial hereditary, 741
 hereditary, 870
 with color vision deficiency, 1122
 diseases of, electroretinogram in, 867
 dystrophy of, 366
 hole in, pathogenesis of, 350
 solar burn of, 1048
 Madrid Ophthalmological Society, 133, 1080
 Magnification, 903
 Malformations: See Congenital anomalies
 Marcus Gunn phenomenon, 733
 Marfan's syndrome, **331**, 1122
 lens dislocation in, 585
 Megalocornea, cataract surgery in, 179
 Meibomitis, seborrheic, eyelid retraction secondary to, **899**
MELANOMA: differential diagnosis in fundus lesions, **975**
 liver metastases after 15 years, 737
 of choroid, biopsy in, 581
 size and shape, prognosis and, 1094
 of uvea, 738
 subretinal fluid in diagnosis of, 337
 Memphis Eye, Ear, Nose and Throat Society, 130, 321
 Meningioma, of optic nerve, 1108
 Metabolism, light stimuli and, 368
 Methanol, visual toxicity of, 868
 Microphthalmos, congenital, 741
 with cysts, **1059**
 Microscopy, new illumination technique for, 869
 Microwave, radiation, biologic effects of, 897
 Middlebrook-Dubos reaction, 574
 Migrate, ophthalmic, 1109
 Cafergot in, 337
 Mintacol, use of, 576
MIOTICS: in strabismus surgery, 910
 Mintacol as a, 576
 Moebius syndrome, **304**, 545, 1110
 Moll's glands, cystadenoma of, 737
 Moniliasis, skin test for, 1073
 Moore's lightning streaks, **837**
 Morax-Axenfeld diplobacillus, 560
MOVEMENTS of the eye: 438
 after cerebral hemispherectomy, 691, 870
 brainstem lesions and, 1077
 examination of, 1090
 horizontal, analysis of, 870
 in poliomyelitis, 352
 objective determination of, 906
 torsional, of eyeball, 166
 Mucopolysaccharides, in diabetic retinopathy, 350
 of cornea, in keratitis, 153
MUSCLES of the eye: action of, scheme for, 167
 anomalies, in presence of tumor, 340
 diagnosis, cover test in, 1092
 disturbances of, in endocrine exophthalmos, 576
 electromyography of lateral rectus, **275**
 elevator, paralysis of, 167
 extraocular, congenital fibrosis of, **432**
 electromyography of, 166
 paresis of, 343
 extrinsic, disturbances of, after retinal detachment surgery, 908
 histologic structure of, 884
 inferior oblique, marginal myotomy of, 341
 medial rectus, pseudoparalysis of, **124**
 palsy, inferior rectus, traumatic, 724
 paralysis, Bielschowsky's test in, 1090
 causes of acquired, **951**
 muscle transplantation in, 1090
 of elevators, supranuclear, 167
 of superior oblique, 167
 paresis, extraocular, 577
 proximeter to examine balance of, 159
 relaxants, Myanesis as, 347, 348
 superior oblique, paralysis of, 167
 surgery, corneal astigmatism changes after, 900
 Myanesis, in cataract extraction, 348
 Myasthenia gravis, eyelid retraction in, 589
 ophthalmoplegia in, 353
 Mydriasis, jimson weed in, 894
 paralytic in optic neuritis, 353
 Myeloma, multiple, 1115
 retinal hemorrhage in, 586
 Myelomatosis, eye complications of, 360
 Myleran, cataract produced by (rats), 896
MYOPIA: cataract extraction in, 178
 horopter in, 571
 of prematurity, **292**
 physical growth and, 898
 progressive, surgical treatment of, 898
 scleral resection in, 571
 transient, after corticotropin, 900
 Myositis, of orbit, 1111

Explanation: Numbers in **boldface** refer to original contributions and Notes, Cases, Instruments

N

- Naphazoline, in glaucoma, 167
 in iridocyclitis, 167
 Near-reflex, spasm of, 897
 Necroscleeritis nodosa, 912
 N.F.12, topical solution for eye disease, **1020**
 Negro, glaucoma surgery in, beta radiation as adjunct, 319
 Neosporin, ophthalmic use of, **850**
 Neprosol, in retinal hyperemia, 155
 NERVES: abducens paralysis, 545
 Bell's palsy, 352
 congenital paralysis of VI and VII, **304**
 palsies, auto accidents and, 342
 electro-oculogram to study, 342
 Hering's law and, 1091
 in diabetes, 1091
 muscle transplantation to treat, 342
 third, pathways of, 559
 trigeminal, in glaucoma, 1097
 Neurofibromatosis, of iris, 1095
 Neuro-ocular diseases, electroencephalography in, 1070
 Neuro-ophthalmic disturbance, in barbiturate poisoning, 353
 Neuro-ophthalmology, a review, 1110
 clinical value of, 734
 perimetry in, 353
 Neuropsychiatry, observations in senile cataract, 729
 Nevus, differential diagnosis in fundus lesions, **975**
 New England Ophthalmological Society, 325, 548
 New York Academy of Medicine, 698
 New York Society for Clinical Ophthalmology, 137, 698
 Newborn, retinal hemorrhage in, 180, 730, 1103
 trachoma in, 168
 News Items, 184, 369, 590, 721, 924, 1127
 Nicotinic acid, in retrobulbar neuritis, 589
 Night blindness, electroretinography in, 923
 Novocaine, block in hypertension with fundus changes, 907
 Nutrition, galactose cataracts and, 688
 NYSTAGMUS: analysis of eye movements in, 733
 clinical significance of, 354
 congenital vertical, 365
 optokinetic, 909
 in psychogenic visual disturbances, 734

O

OBITUARIES:

- Allen, Thomas Dyer, **715**
 Donegan, Justin M., **879**
 Friedenwald, Jonas Stein, **142**
 Knapp, Arnold, **1084**
 Smith, James W., **714**
 Obstetrics, corneal lesions due to injuries of, 167
 Ochronosis, **712**

OCULAR TENSION: action adrenalin on, 919

- atmospheric pressure changes and, 584
 ciliary artery contraction and, 584
 Diamox and: See Diamox
 effect beta hypophamine on, 1071
 effect chlorpromazine on, 318, 728
 effect Myanesin on, 347
 effect various compounds on, 1071
 eosinophil count and diurnal variation of, 684
 high, tolerance of in glaucoma, **408**
 hypertension, Diamox in, 1095
 hypotony, fundus changes in postoperative, 1086
 in herpes zoster, 918
 in tumors of hypophyseal region, 1098
 influence blood-pressure lowering drugs on, 1099
 influence removal hemisphere cortex on, 1098
 influence Serpasil on, 1099
 influence "sleep therapy" on, 1099
 nervous regulation of, 584
 normal, limits of, 1100
 paracentesis and, 1075
 range in retinal detachment, 1103
 reducing factor, in spinal fluid, 728
 responses, centrally induced, 865
 retinal vessel changes in elevated, 1102

OCULAR TENSION (continued)

- standards for determining, 921
 visual field damage in elevated, 1096
 Ointment, Polyfax in eye infections, 573
 Onchocerciasis, 1118
 Ophthaine, in surface anesthesia, 162
 Ophthalmia, nodosa, due to caterpillar hairs, 171
 sympathetic: See Sympathetic ophthalmia
 Ophthalmic Research, 318, 537, 684, 861, 1067
 abstracts of, East-Central section, 684
 June meeting, 861
 Midwest section, 1067
 Western section, 537
 Wills Eye Hospital, 318
 Ophthalmology, aeronautic, problems of, 1126
 Ophthalmometry, topographic, 157
 OPHTHALMOPLEGIA: after influenza, **909**
 exophthalmic, hyaluronidase to treat, 356
 external progressive, 343
 internal, due to lead poisoning, 889
 hereditary congenital, **615**
 in myasthenia gravis, 353
 in parotitis, 355
 Ophthalmoscope, lens supporter for, 575
 Ophthalmoscopy, modern indirect, **265**
 retinal light reflexes and, **288**
 Optic disc, coloboma of, 741
 evulsion of, 1108
 grooves of, 1109
 vessels of, in pigment degeneration of retina, 162
 OPTIC NERVE: atrophy, hereditary, 351
 Leber's, 1124
 diseases of, 137
 effect retrobulbar Procaine on, 902
 glia of, 684, 861
 glioma of, complete removal, 351
 in experimental encephalitis, 560
 intracranial compression of, 1108
 lesions, after skull injuries, 351
 meningioma of, 1108
 micro-arteriography of, 149
 reaction glial elements of, 684, 861
 reaction nervous elements of, 861
 sheath pathway of, 351
 Optic neuritis, after arsenicals, 352
 in Foster-Kennedy syndrome, 352
 in lactation, 351
 paralysis, accommodation in, 353
 mydriasis in, 353
 retrobulbar: See Retrobulbar neuritis
 Optic pathways, vascular supply of, 149
 Optometry, ophthalmology and, **874**
 Ora serrata, study of, 884
 ORBIT: a review, 357
 carcinoma of, 360
 expanding lesions of, treatment, 3
 fascia of, development of, 869
 fractures of, radiographic study, 736
 glioma of, 360
 granuloma of, cholesterol-containing, **234**
 hemangio-endothelioma, 735
 injuries of, 357
 See also under Injuries
 margin of, hypoplasia, 741
 myeloma of, 1115
 myoblastoma of, 736
 myositis of, 1111
 plastic surgery of, skin grafts in, 1116
 pseudotumor of, 736
 reconstruction of, using temporalis muscle, **519**
 reticulosarcoma of, 1112
 sarcomas of, **1054**
 sarcoma of, 360
 tumors of, diagnosis, 356
 metastatic to, 548
 phlebography to diagnosis, 734
 treatment of, 356
 Orthoptics, 166
 OXYGEN: consumption of lens, 563
 polarographic study of, 860

Explanation: Numbers in **boldface** refer to original contributions and Notes, Cases, Instruments

OXYGEN (*continued*)

- in retrolental fibroplasia: See **Retrolental fibroplasia**
- poisoning, mechanism of, 1069
- retinal vessels and, 563

P

- Paget's disease, of eyelid, 361
- Palpebral fold, construction of superior, **1040**
- Palpebral surgery, steel wire in, 357
- Papilla, double, 1123
- Papilledema, granulomatous angiitis and, 1118
- in diabetic retinopathy, 923
- pseudo-, 589
- Paracentesis, ocular hypertensive reaction after, 1075
- Parotitis, ophthalmoplegia in, 355
- Perception, selective in amblyopia, 1070
- Periarthritis nodosa, 1119
- Pericytes, of human choroid, **990**
- Perimetry, color, 685
- in neuro-ophthalmology, 353
- Phacoerisis, vacuum pump for, 907
- Pharmacology, and toxicology, a review, 154
- Pheochromocytoma, eye manifestations of, 364
- Philadelphia, College of Physicians of, Section on Ophthalmology, 136, 543, 1076
- Phlebotomy, in diagnosing orbital tumors, 734
- Phoria, accommodation and, 160
- refraction and, 160
- Phosphate, absorption of lens, 891
- Phosphorus, in vitreous in retinal pigment degeneration, 155
- Photography, color, through slitlamp microscope, 691
- electronic flash in, 164
- to record ocular opacities, 163
- Photophobia, **904**
- Phthisis bulbi, congenital familial, 1122
- Physiological chemistry of eye, a review, 568
- Pigment of eye, study of, 884
- Plasma, penetration thiocyanate ions into, 563
- Plastic surgery, construction superior palpebral fold, **1040**
- in Orientals, 1113
- of eyelids, 1114
- of injuries, 329
- of lacrimal apparatus, 1112
- of orbit, skin grafts in, 1116
- polyethylene in, seven-year evaluation, 906
- Plastics, in ophthalmology, 901
- Poliomyelitis, palsy due to, eye movements in, 352
- Polyethylene, in plastic surgery, 906
- tubes, to re-establish tear drainage, **1063**
- Polymyxin-bacitracin (Polyfax) ointment, in infections, 573
- Polysaccharides, of vitreous fibers, 563
- Prednisolone, in eye disease, **593**
- Prednisone, 320, 562
- action on anaphylactic keratitis, 562
- in eye disease, **593**
- in uveitis, 893
- Pregnancy, blindspot in normal, 1130
- retinopathy of, 363
- Prematurity, myopia of, **292**
- ocular manifestations of, 1106
- postnatal cataracts in, **310**
- Presbyopia, accommodation in, 898
- Priscoline, in diagnosis early glaucoma, 917
- in retinal artery occlusion, 351
- Procaine, retrobulbar, effect on optic nerve, 902
- Prostheses, 1112
- intracocular implants and, **904**
- PROTEINS: aqueous, determination of, 567
- c-reactive, in ophthalmology, **942**
- in uveitis diagnosis, 318
- electrophoretic study of, in blood serum in idiopathic retinal detachment, 890
- in calves' eyes, 894
- in tears, 540
- lens permeability to serum, 566
- of lens, interaction with other proteins, 567
- residual of vitreous, 869

PROTEINS (*continued*)

- serum, in phlyctenular keratoconjunctivitis, 154
- in vernal catarrh, 154
- to produce lens opacities, 567
- Proximeter, to examine muscle balance, 159
- Pseudochromatic plates, discrimination value of, 163
- Pseudomonas infections, action benzalkonium chloride on, 538
- effect cortisone on, 568
- Pseudopapilledema, 589
- Pterygia, 579
- recurrent, 323
- PTOSIS: operations for, Blaskovics's, 1113
- Cattaneo's modified, 737
- construction superior palpebral fold during, **1040**
- spatula, 576
- Pulseless disease, 741
- cataract due to, 117
- PUPIL: Adie's syndrome, 733
- Argyll-Robertson, 864
- decentration, dioptries in, 157
- effect Corneacin on, 568
- in diagnosis, 733
- inequality, in tuberculosis, 354
- reaction, vasoconstriction and, 568
- Pupillography, in clinical diagnosis, 734
- Purtscher's disease, after carotid ligation, 732
- fundus changes in, 362
- Pyruvic acid, in vitreous, 156

R

- RADIATION: lens changes after, 861
- repair fetal eye after, 568
- studies, on monkey eye, 150
- THERAPY: beta-ray, applicator for, 906
- in conjunctival lesion of telangiectasis, **672**
- in glaucoma surgery, in Negro, 319
- gamma-ray, applicator for, 907
- RADIOACTIVE: iodine, distribution in eye, 896
- to study aqueous, 687
- to study lens, 687
- to study tears, 687
- to study vitreous, 687
- isotopes, in diagnosis, 1079
- in ophthalmology, 904
- phosphorus, to detect intraocular tumors, **507**
- uptake test, 906
- Radiography, contrast media in orbital, 163
- Radiopaque, study of aqueous outflow, 693
- Radium, phosphenes, 565
- Reading, efficiency, effect reversal on, **1029**
- problems, management of, 329
- REFRACTION: changes, after strabismus surgery, 158
- chromatic aberrations and, 899
- double, of eye tissues, 154
- effect lenses on, 899
- effect luminance on, 899
- effect target configuration on, 899
- in aphakia, spherical, 571
- minor suggestions for, 899
- objective methods of, 159
- phoria and, 160
- proximeter in, 159
- subjective methods of, 159
- unequal corrected vision, anisometropia and, 899
- Research, ophthalmic, department of: See **Ophthalmic Research**
- association for: See **Association for, etc.** See also **Ophthalmic Research**
- Reticulosarcoma, of orbit, 1112
- RETINA: action cortisone on, 563
- adenosine triphosphate of, 564
- aneurysm of, 180
- angiomatosis of, 1103
- diathermy for, 1105
- ARTERY: anastomoses with ciliary, 885
- hypotension, significance of, 585
- in heart patients, 739
- occlusion, **1104**
- central scotoma in, 586

Explanation: Numbers in **boldface** refer to original contributions and Notes, Cases, Instruments

RETINA (*continued*)

ARTERY (*continued*)

occlusion (*continued*)

- Priscoline in, 351
- pressure, in fundus disease, 587
- blood vessels of, changes in elevated ocular tension, 1102

blood volume, changes in, 539, 865

breaks, in Eye-Bank eyes, 922

cysts of, 182, 324

degeneration, optic disc vessels and, 162

pigmentary, and retinal detachment, 585

phosphorus in vitreous in experimental, 155

DETACHMENT: clinical tears without, **773**

diathermy in, 703

techniques in, 707

due to stress, 1107

electrosurgery in, 542

histamine in subretinal fluid in, 561

idiopathic, **660**

blood-serum proteins in, 890

in juveniles, 1102

in aphakia, 1102

in glaucoma, 1106

in herpes zoster, **253**

in myopia, 350

in nonmyopia, 350

lamellar undermining for, **633**

light coagulation in, 587

light sense as prognostic sign in, 923

localizing tears in, 705

motility disturbances after treatment for, 508

ocular tension range in, 1103

operation in, advice against, 705

pathogenesis of, 349, 588

pigment retinal degeneration and, 585

postoperative management of, 708

preoperative management of, 708

prophylaxis in, 183

protein content subretinal fluid in, 564

reoperation in, 708

sclera in, 705

scleral depression in, 704

scleral resection in, 319, 698, 699, 702

See also Scleral resection

surgery, fluid release in, 706

results in, 179, **247**

symposium on, 698

therapy of, 179

vitreous in, 701, 708

with macular hole, 706

disinsertion, etiology of, 587

fat embolism of, **1**

ganglion cells of, 1068

glial elements of, 861

glial tumors of, tuberculous sclerosis and, **428**

hemorrhage of, after blood transfusion, 732

in myeloma, 586

in newborn, 180, 730, 1103

hyperemia, treatment with Neprosol, 155

image, and visual acuity in hypermetropes, 157

light reflexes of, anterior limiting membrane and, **288**

metabolism of, cortisone and, 562

nerve fibers in, 149

nervous elements of, 861

periarthritis, and vascular disease, 181

periphlebitis, blood studies in, 586

in multiple sclerosis, 1110

pigmentation, due to choroidal melanoma, 182

reaction glial elements of, 861

reaction nervous elements of, 861

respiration of, 156, 564

sensitivity to brightness, 898

spike action potentials in, 688

tears in, clinical without detachment, **773**

during surgery, 179

vein, thrombosis of, sequellae of, 350

Tromexan in, 181

vessels, oxygen and developing, 563

thrombosis, dicumarol in, 1104

RETINA (*continued*)

vitamin B₁₂ content, influence thiamin-deficient diet on, 565

Retinal correspondence, in strabismus, 1090

clinical study of, 898

pathologic types of, **900**

transfer test to examine, **908**

Retinitis exudation interna, 1105

RETINITIS PIGMENTOSA: 1105

audiometric examination in, 1105

cone vision in, 869

conical cornea and, 366

electroencephalographic studies in, 183

fundus reflexes in, 180

pathologic anatomy of, 182

rod vision in, 869

rosettes in advanced, 732

unilateral, **308**

vestibular examination in, 1105

Retinitis proliferans, in diabetes, 729

Retinoblastoma, **22**, 180, 731

multiple islands of, 183

Retinochoroidal tissue, ultraviolet absorption of, 569

Retinochoroiditis, differential diagnosis in, 915

due to injection egg white, **560**

RETINOPATHY: angiopathic, 350

arteriosclerosis, hypertension, and, hormones to treat, **85**

central angiopathic, **105**

central serous, 349

diabetic: See Diabetic retinopathy

of pregnancy, 363

Retinopathy, errors in, 158

Retrobulbar neuritis, due to injection egg white, **560**

nicotinic acid in chronic, 589

of multiple sclerosis, H-R-R pseudo-isochromatic plates

in diagnosis of, **833**

RETROLENTAL FIBROPLASIA: **332**

experimental approach to, 151, **619**, 886

oxygen administration and, 1102

oxygen-induced changes in, **619**

oxygen therapy and, 182

oxygen withdrawal and, **619**

statistics on, **117**

symposium on, 588

terminating in ablatio falciformis, 1107

therapy of, 349

Reversal, effect on reading performance, **1029**

Rheumatic fever, capillary microscopy in, 502

Rheumatism: See Collagenous disease

Riboflavin, antiallergic effect of, 154

deficiency, corneal changes due to, 156

Ridley, lens, after extracapsular cataract extraction, 348

case report on, 177

implantation of, 177

operation, 177

Casanova's memoirs and, 368

experiences with, 178

results in, 178

Roenne's nasal step, Bjerrum scotoma and, 1109

S

Saccharine, to test patency lacrimal apparatus, 330

Sarcoid, Boeck's, 1130

Sarcoidosis, conjunctival biopsy in, 337

of lacrimal gland, 1113

of orbit, **1054**

rarity in ocular, 164

Schilder's disease, eye changes in, 354

Schlemm's canal, influence hyaluronidase on permeability of inner, **651**

pressure in, 154

SCLERA: cornea and, a review, 911

SCLERAL: buckling, lamellar undermining in, for

retinal detachment, **633**

depression, indirect ophthalmoscopy and, **265**

reefing, 1104

resection, in myopia, 571

lamellar, **92**

observations on, 319

Explanation: Numbers in **boldface** refer to original contributions and Notes, Cases, Instruments

- SCLERAL** (*continued*)
 shortening operation in rabbits, comparative study, 864
 Scleritis, in Felty's syndrome, 912
 Scleromalacia, 169
 perforating bilateral, 725
 Sclerosis, multiple, eyeground in, 1110
 H-R-R pseudo-isochromatic plates in diagnosis retrobulbar neuritis of, 833
 retinal periphlebitis and, 1110
 tuberous, glial tumor of retina and, 428
SCOTOMA: artificial, to treat amblyopia, 570
 Bjerrum's, Roenne's nasal step and, 1109
 central, in retinal artery occlusion, 586
 relative, 165
 Selsun, in marginal blepharitis, 1115
 Serpasil, influence on ocular tension, 1099
 Skull, optic nerve lesions after injury to, 351
 "Sleep therapy," influence on ocular tension, 1099
 Slitlamp, microscope, color photography through, 691
 microscopy, of fundus, 905
 Smith, James W., 714
 Snake bite, blindness due to, 1116
 Society Proceedings, 130, 321, 543, 698, 1076
 Sodium, distribution between aqueous and plasma, 809
 iodoacetate, ocular lesions produced by, 1071
 Soemmerring's ring, traumatic subluxation of, 1101
 Solar chorioretinal burn, 1048
 Solutions, N.F.12, for external eye disease, 1020
 sterilization factor in selecting, 905
 Sorcery, eye in, 1125
SPECTACLES: all-glass microscopic lens, 692
 bifocal, measurement additions in, 901
 for partially sighted, 30
 Spinal fluid, ocular tension reducing factor in, 728
 Staphylococcus aureus, infections after cataract extraction, 981
 Sterilizer, hot-air, 858
 Steroids: See Corticosteroids
 Stilling-Türk-Duane syndrome, 166
STRABISMUS: amblyopia in, 569
 anomalous retinal correspondence in, 1090
 atypical accommodative esotropia, 955
 concomitant convergent, in adults, 341
 conjunctival abnormalities in, 1092
 convergent, 909
 D.F.P. to treat, 343, 1091
 divergent, 343, 724
 effect on psychology of child, 1091
 inferior oblique surgery and, 908
 paralytic, convergent, 577
 surgical treatment of, 340
 suppression in, 908
SURGERY OF: 909
 cardiac arrest during, 748
 miotics in, 910
 pseudoparalysis medial rectus after, 124
 with diplopia, 121
Streptokinase-streptodornase, in corneal ulcers, 847
 in tuberculous meningitis, 338
 Stress, retinal detachment due to, 1107
 Styria, epidemic keratoconjunctivitis in, 578
 Sun, burn causing chorioretinitis, 1048
SURGERY of eye: 1082
 artificial hibernation in, 901
 binocular microscope in, 902
 curare in, 163
 device to maintain airway in, 681
 drug actions in, 161
 grooved marking calipers for, 682
SUTURES: conjunctival, in enucleation, 903
 corneal, anterior chamber reformation and, 165
 forceps, for corneoscleral, 681
 instrument to manage chronic gut, 858
 Symblepharon, congenital, 144
 surgery of, 170
SYMPATHETIC OPHTHALMIA: 914
 experimental studies of, 172
 pathogenesis of, 580, 1095
 uveal auto-antibodies in, 173
- SYNDROMES:** Adie's, 733
 arterial occlusion, 364
 Behçet's, 41, 55, 172, 363
 Claude-Bernard-Horner, 171
 Foster-Kennedy, 352
 localizing value of, 589
 Marfan's, 331, 1122
 lens dislocation in, 585
 Moebius, 304, 545
 of cavernous space, 162
 spherophakia-brachymorphia, 1123
 Stilling-Türk-Duane, 166
 uvecomeningeal, 727
 Vogt-Koyanagi, neurovegetative system in, 728
 pathogenesis of, 580
 Synchia, anterior, modified Sato operation for, 905
 Syphilis, fundus changes in latent, 165
- T**
- TEARS:** drainage, polyethylene tubes for, 1063
 fibrinolytic activity in human, 155
 lysozyme in (rabbit), 540
 protein components of, 540
 radio-iodine studies of, 687
 Telangiectasia, hereditary hemorrhagic, conjunctival
 lesion in, beta irradiation for, 672
 Temporal arteritis: See Arteritis, temporal
 Terramycin, penetration of, 153
 Testosterone, effect on lacrimal gland, 154
 Tetracycline, in trachoma, 577
 studies on, 887
 Thorazine, effect on ocular tension, 318
TISSUES of eye: after radiation glaucoma, 728
 coagulation components in, 156
 double refraction of, 154
 hyaluronidase in, 565
TONOGRAPHY: 347, 583
 bulbar pressure test and, 1074
 experimental, 345, 1071
 in rabbits, 892
 in provocative tests for glaucoma, 187
 Tonometer, electronic, new, 165
 precision of commercially available, 573
 Tonils, wound infections and, 1080
 Toxicology, and pharmacology, a review, 154
 Toxoplasma, persistence of, 863
 uveitis, diagnosis of, 581
 treatment of, 581
TOXOPLASMOSIS: 171, 365
 congenital, 581
 experimental, 151, 1069
 intraocular inflammation and, 600
 Trabecula, aqueous flow through, 153
 meshwork of, anatomic study of, 542
TRACHOMA: 862
 aureomycin in, 912
 in newborn, 168
 inclusion bodies in, 578
 serologic diagnosis in, 911
 Tetracycline in, 577
 virus culture in, 911
 Trephination, corneoscleral in glaucoma, 399
 iridencleisis compared to, 585
 Tromexan, in retinal vein thrombosis, 181
TUBERCULOSIS: anisocoria in, 354
 Isoniazid in ocular, 339
 Middlebrook-Dubos reaction in, 574
 uveal in infancy, 171
TUBERCULOUS MENINGITIS: eye symptoms in, 353
 eye manifestations of, 1120
 neurosurgery in, 753
 ocular sequelae of, 753
 streptokinase-streptodornase in, 338
TUMORS: Diodrast to diagnosis orbital, 339
 intracranial, 733
 muscle anomalies in presence of, 340
 of choroid, 581, 726, 1094
 of ciliary body, 360
 of conjunctiva, 344, 361
 of eyelids, 359, 728, 737, 1114

Explanation: Numbers in **boldface** refer to original contributions and Notes, Cases, Instruments

TUMORS (continued)

- of hypophyseal region, ocular tension in, 1058
- of iris, 543
 - diathermy in, 914
- of lacrimal gland, 1114
 - arising in, 3
 - epithelial, 358
 - primary, **996**
 - X-ray diagnosis of, 359
- of lacrimal sac, 1112
- of orbit, **234**, 356, 360, 735, 736, 1112, 1115
 - Diodrast to diagnosis, 339
 - expanding, 3
 - metastatic, 548
 - phlebography to diagnose, 734
- sarcoidosis, 1054
- of uvea, 738
- radioactive phosphorus to detect intraocular, **507**
- subretinal fluid in diagnosis of, 337
- transplantation into fundus, 861

- Twins, fundus in monozygotic, 367
- heterochromic cyclitis in identical, **748**

U

- Ulcers, rodent, corneal transplantation in, 170
 - See also under name of organ
- Ultrasonic, energy, effect on rabbit eye, 894
- diagnosis, in ocular disease, **488**
- Ultrasound, effect on blood protein fraction, 905
- Ultraviolet, absorption of retinochoroidal tissue, 569
- action spectra, ophthalmic, **969**
- lamp, to examine corneal disease, 725
- Urethane, in healing chemical injuries, 895
- UVEITIS: 580
 - blood-aqueous barrier permeability in, 726
 - complication of serum sickness, **534**
 - cortisone in, 893
 - C-reactive protein in diagnosis of, 318
 - diagnosis of, 916
 - effect on alkaline reserve of intraocular fluids, 561
 - effect on alkaline reserve of lens, 561
 - effect on lens, amino acids of, 561
 - water of, 561
 - etiologic problems of, 582
 - experimental, effect trauma on, **299**
 - leptospirosis, 914
 - prednisolone in, **593**
 - prednisone in, **593**, 893
 - toxoplasmic, diagnosis of, 581
 - treatment of, 581
 - upper respiratory infections and, 691
 - uroprecipitating reactions in, 914
 - vitamin D in chronic, 915
- Uveomeningeal syndromes, 727

V

- Vascular disease, retinal periarteritis and, 181
- Vergence, electromyography to study, 340
- Vernal conjunctivitis: See Conjunctivitis, vernal
- Vernal catarrh, serum proteins in, 154
 - treatment of, 912
- Versene, to remove corneal rust, 1075
- VIRUSES: APC group of, 170
 - corneal involvement by, 913
 - epidemic keratoconjunctivitis and, 538, 887
 - eye diseases due to, 579
 - in follicular conjunctivitis, **231**
 - infections in 1955, 693
 - isolated in keratoconjunctivitis, 862
 - in ophthalmology, 150
 - of Behçet's disease, **41**
 - trachoma: See Trachoma
- Visio, a new unit of visual acuity, 158
- Vision, in transfer of learning, 1125
- VISUAL ACUITY: measurement of, 570
 - of hypermetropes, retinal images and, 157
 - screening tests for groups, **899**
 - stimulus situation and, 160
 - subjective, objective examination and, 160

VISUAL ACUITY (continued)

- visio, new unit of, 158
- Visual aids, for partially sighted, **30**
- Visual defects, in children, 570
- Visual efficiency, loss of, estimation of, 362
- VISUAL FIELDS: Harrington-Flocks test for, in aphakia, **987**
 - multiple pattern test, 904
 - screening test, **683**
 - See also under Perimetry
- Visual perception, form in, 571
- Visual screening, apparatus for, 1077
 - for groups, **899**
- Visual stimulus, electroretinography and, **686**

VITAMINS:

- A: deficiency, electroretinogram in, 923
 - herpes corneae and, 132
- B₁: content of lens, 565
- B₂: antiallergic effects of, 154
 - deficiency, corneal changes due to, 156
- B₁₂: in corneal disease, 725
- C: intraocular, after diathermy, 569
 - See also Ascorbic acid
- D: effect in chronic uveitis, 915
- deficiencies, eye signs of, 888
- nicotinic acid, in retrobulbar neuritis, 589
- VITREOUS: analysis of solutions derived from rabbit, 888
 - cysticercus in, 1123
 - detachment, 181
 - electron microscope to study, 560
 - filtrates (bovine), 538
 - glucosamine in, 895
 - hemorrhage, in premature infants, 588
 - in retinal detachment, 701, 708
 - lactic acid in, 156
 - opacity, diaphragmatic resection of, 586
 - oxygen in, in anoxia, 1067
 - in hyperoxia, 1067
 - persistent hyperplastic, 1107
 - phosphorus in, in retinal pigment degeneration, 155
 - polysaccharides of fibers of, 563
 - precipitates on, 1103
 - pyruvic acid in, 156
 - radio-iodine studies of, 687
 - residual proteins of, 869
 - stability, biochemical studies on, **1024**
- Vogt-Koyanagi syndrome, neurovegetative system in, 728
 - pathogenesis of, 580

W

- Woods, Alan C., M.D., **373**, **374**, **551**
- Wound, infections and infected tonsils, 1080
 - healing: See under area or organ

X-Y-Z

- Xeroderma pigmentation, 739
- Xerosis, conjunctival cytology in, 1092
- X-RAYS: diagnosis of foreign bodies, slit method, **302**, 1116
 - of lacrimal gland tumors, 359
 - of skull, 575
 - effect on lens, 893
 - epithelium of, 568
 - effect of moderate doses on eye, 862
 - examination, of orbital fractures, 736
 - high-voltage, ocular effects of, 560
 - localization by, of foreign bodies, slit method, **302**
 - low-voltage, effect on regression corneal vessels, **894**
 - phosphores, 565
 - therapy, in corneal herpes, 1093
 - to hypophysis, in malignant exophthalmos, 735
 - visibility of, 570
- Yale University Clinical Conferences, 325, 1079
- Zonule, electron microscope to study fibers of, **884**

INDEX

Authors and Titles of Original Articles and Notes, Cases, Instruments

- A**
- ABRAHAMSON, Ira A., Jr., BRUMM, Lewis P., and ABRAHAMSON, Ira A., Sr.: A simplified technique for corneal transplantation: Employing a contact-lens splint, **79**
- ABRAHAMSON, Ira A., Sr.: See ABRAHAMSON, Ira A., Jr.
- AGARWAL, Lalit P., and MALIK, S. R. K.: Streptokinase-streptodornase: In the treatment of sloughing hypopyon corneal ulcers, **847**
- AMBROSE, Anthony: Forceps for corneoscleral sutures, **681**
- ATKINSON, Walter S.: A safe section for cataract extraction, **272**
- AVELLO, J. Junceda, and NORIEGA, M. Roiz: Radiologic-slit method for foreign-body localization: A preliminary report, **302**
- B**
- BACHEM, A.: Ophthalmic ultraviolet action spectra, **969**
- BARKAN, Otto: Peripheral iridectomy: With retention of the anterior chamber, **964**
- BARRAQUER, Joaquin Moner: Suturing corneoscleral-conjunctival flap: In cataract extraction, **854**
- BARRAQUER, Joaquin Moner, and MUISOS, Alfredo Simon: Lamellar scleral resection: Indications and technique, **92**
- BECKER, Bernard: The effects of acetazolamide on ascorbic-acid turnover: An application of the theory of aqueous humor dynamics, **522**. See also FRIEDENWALD, Jonas S.
- BEDROSSIAN, E. Howard, and LACHMAN, Bernard E.: Congenital paralysis of sixth and seventh nerves: Congenital facial diplegia, congenital oculo-facial palsy, Moebius syndrome, **304**
- BEHRENDT, Thomas: Experimental study of corneal lesions produced by topical anesthesia, **99**
- BERENS, Conrad: Grooved marking calipers for ocular surgery, **682**
- BETTMAN, Jerome W., and FELLOWS, Victor: The differential diagnosis of dark lesions of the posterior fundus, **975**
- BINDER, Hertha F., and BINDER, Rudolf F.: Experiments on plexiglass corneal implants, **793**
- BINDER, Rudolf F.: See BINDER, Hertha F.
- BIRGE, Henry L.: Myopia caused by prematurity, **292**
- BLODI, Frederick C.: See SWANLJUNG, Helvi
- BOYES, Truman: See QUIROZ, Carlos
- BROCKHURST, Robert J.: Modern indirect ophthalmoscopy, **265**
- BRUMM, Lewis P.: See ABRAHAMSON, Ira A., Jr.
- BRUNISH, Robert: Biochemical studies on vitreous stability, **1024**
- BURCH, Edward P.: Anesthesia techniques in cataract surgery, **424**
- BUTTON, Richard: A buried type of integrated orbital implant, **313**
- C**
- CALLAHAN, Alston: Multiple abnormalities of the iris (Mesodermal tissue, atrophy, and holes): With secondary glaucoma and deafness (Histologic examination of one eye), **745**
- CHADDAH, M. R.: See DAS, Tulsi
- CHAMLIN, Max, and RUBNER, Karl: Lamellar undermining: A preliminary report on the technique of scleral buckling for retinal detachment, **633**
- CHANDLER, Paul A.: Atrophy of the stroma of the iris: Endothelial dystrophy, corneal edema, and glaucoma, **607**
- COLLETTE, J. M.: See FRANÇOIS, J.
- COLYEAR, Bayard H., Jr., and PISCHEL, Dohrmann K.: Clinical tears in the retina without detachment, **773**
- D**
- DALY, Timothy: See REED, Howard
- DAS, Tulsi, NIRANKARI, M. S., and CHADDAH, M. R.: Solar chorioretinal burn, **1048**
- DAVSON, Hugh, and LUCK, C. P.: A note on the distribution of sodium between plasma and aqueous humor: With special reference to the monkey, **809**
- DRAHEIM, Jerry W.: See McPHERSON, Samuel D., Jr.
- DYER, John A.: See RUCKER, C. Wilbur
- E**
- EARLE, Wilton R.: See McPHERSON, Samuel D., Jr.
- ESPOSITO, Albert C.: Treatment of traumatic implantation cyst of the iris, **115**
- EVANS, Virginia J.: See McPHERSON, Samuel D., Jr.
- F**
- FELLOWS, Victor: See BETTMAN, Jerome W.
- FRANÇOIS, J., NEETENS, A., and COLLETTE, J. M.: Microradiographic study of the influence of hyaluronidase on the permeability of the inner wall of Schlemm's canal, **651**
- FRIEDENWALD, Jonas S., and BECKER, Bernard: Aqueous humor dynamics: Theoretical considerations, **383**
- FUCHS, Adalbert: Drusen of the lamina vitrea: A discussion of their difference in Europe, the United States and China, **840**
- G**
- GARNER, Lawrence L., and GROSSMANN, Erwin E.: Hereditary hemorrhagic telangiectasia: With beta irradiation of a conjunctival lesion, **672**
- GAYNON, Irwin E.: Lid retraction: Secondary to sebhorreic melibromitis: A case report, **859**
- GILMORE, John E.: See SORENSON, E. John
- GIVNER, Isadore: Ocular observations on the diabetic patient, **285**
- GOHD, Robert S.: See ZEAVIN, Bernard H.
- GOODSIDE, Victor: The anterior limiting membrane and the retinal light reflexes, **298**
- GORDON, Dan M.: Prednisone and prednisolone in ocular disease, **593**
- GROSSMANN, Erwin E.: See GARNER, Lawrence L.
- GUTIERREZ, Elizabeth: See LOCATCHER-KHORAZO, Deborah
- GUYTON, Jack S., and KIRKMAN, Neil: Ocular movement: I. Mechanics, pathogenesis, and surgical treatment of alternating hypertropia (dissociated vertical divergence, double hypertropia) and some related phenomena, **438**
- GWATHMEY, Tayloe: Incomplete peripheral iridectomy: Two instructive cases, **1043**
- GYLLENSTEN, Lars J., and HELLSTRÖM, Bo E.: Experimental approach to the pathogenesis of retrolental fibroplasia: IV. The effects of gradual and of rapid transfer from concentrated oxygen to normal air on the oxygen-induced changes in the eyes of young mice, **619**
- H**
- HAGEDOORN, A., and SIEGER, D. H.: Idiopathic retinal detachment, **660**
- HALLETT, Joseph W., WOLKOWICZ, Michael I., and LEOPOLD, Irving H.: Ophthalmic use of Neosporin[®], **850**

- HALLETT, Joseph W.: See WOLKOWICZ, Michael I.
 HEATH, Parker: See HERM, Robert J. See also MILAM, D. F., Jr.
 HELLSTROM, Bo E.: See GYLLENSTEN, Lars J.
 HENDERSON, John W.: See STEIN, Harold A.
 HERM, Robert J., and HEATH, Parker: A study of retinoblastoma, 22
 HOLLANDER, David H.: See ILIFF, Charles E.
 HOLMES, William John: Hereditary congenital ophthalmoplegia, 615
 HOOVER, Richard E.: Nongranulomatous uveitis: A complication of serum sickness, 534
 HUGHES, William F., Jr.: See MUNDT, G. Henry, Jr.
- I**
- ILIFF, Charles E., WOOD, Ronald M., and HOLLANDER, David H.: Successful transplantation of a frozen human cornea, 505
- J**
- JAMPOLSKY, Arthur: Esotropia and convergent fixation disparity: Of small degree: Differential diagnosis and management, 825
 JOHNSON, Carl Cordes: Operations for epicanthus and blepharophimosis: An evaluation and a method for shortening the medial canthal ligament, 71
- K**
- KANDORI, Fumio: Studies on radiation cataract: I. Determination of the threshold dose level of radiation cataract, 627. Studies on radiation cataract: II. Commentary on the radiation cataract, 1006
 KEARNS, Thomas P.: Fat embolism of the retina: Demonstrated by a flat retinal preparation, 1. See also STEINMETZ, Rodney D.
 KING, J. Harry, Jr.: See OWENS, William Councilman
 KING, Merrill J.: See ZEAVIN, Bernard H.
 KIRK, Harold Quentin: See THEOBALD, Georgiana Dvorak
 KIRKMAN, Neil: See GUYTON, Jack S.
 KULVIN, Max M.: A device for obtaining adequate airway in eye surgery, 681
- L**
- LACHMAN, Bernard E.: See BEDROSSIAN, E. Howard
 LADENHEIM, Jacob, and METRICK, Seymour: Congenital microphthalmos with cyst formation, 1059
 LAUGHLIN, Robert C.: Congenital fibrosis of the extraocular muscles: A report of six cases, 432
 LAZOR, Edward B.: See ZEKMAN, Theodore N.
 LEOPOLD, Irving H.: See HALLETT, Joseph W. See also WOLKOWICZ, Michael I.
 LEVATIN, Paul: Glaucomatocyclitic crises occurring in both eyes, 1056
 LINCOFF, Harvey A., WISE, George N., and ROMAINE, Hunter H.: Total detachment and reattachment of the retina: In herpes zoster ophthalmicus, 253
 LINKSZ, Arthur: Visual aids for the partially sighted, 30
 LINNÉR, Erik: Further studies of the episcleral venous pressure in glaucoma, 646
 LOCATCHER-KHORAZO, Deborah, and GUTIERREZ, Elizabeth: Eye infections following cataract extraction: With special reference to the role of *Staphylococcus aureus*, 981
 LOCKE, John C.: Bowen's disease (intraepithelial epithelioma) of the cornea and conjunctiva: A clinicopathologic study, 801
 LUCK, C. P.: See DAVSON, Hugh
- M**
- MacLEAN, Angus L.: Corneoscleral trephining, 399
 MAGEE, Alfred J.: The electromyogram of the lateral rectus muscle, 275
 MAKLEY, Torrence A., Jr.: Heterochromic cyclitis in identical twins, 768
 MALIK, S. R. K.: See AGARWAL, Lalit P.
 MANN, Ida, and TURNER, Cecil: Color vision in native races in Australasia, 297
 MAUMENESE, A. Edward: Keratitis secondary to keratinization of the tarsal conjunctiva, 477
- MAUMENESE, A. Edward, and SHANNON, C. Richard: Epithelial invasion of the anterior chamber, 929
 McDIARMID, Roper O.: See REED, Howard
 McFARLANE, Donald C.: Correction of spastic entropion: By the method proposed by Wies, 657
 McLEAN, John M.: Glial tumors of the retina: In relation to tuberculous sclerosis, 428
 McPHERSON, Samuel D., Jr., DRAHEIM, Jerry W., EVANS, Virginia J., and EARLE, Wilton R.: The viability of fresh and frozen corneas: As determined in tissue culture, 513
 METRICK, Seymour: See LADENHEIM, Jacob
 MILAM, D. F., Jr., and HEATH, Parker: Primary epithelial tumors of the lacrimal gland, 996
 MITSUI, Yukohiko, and SAKANASHI, Ryuji: Central angiospastic retinopathy, 105
 MOONEY, Alan J.: Some ocular sequelae of tuberculous meningitis: A preliminary survey, 1953-54, 753
 MORIEGA, M. Roiz: See AVELLO, J. Junceda
 MUISOS, Alfred Simon: See BARRAQUER, Joaquin Moner
 MUNDT, G. Henry, Jr., and HUGHES, William F., Jr.: Ultrasonics in ocular diagnosis, 488
 MUNGOVAN, John F.: More about retrolental fibroplasia, 117
- N**
- NAQUIN, Howard A.: Orbital reconstruction: Utilizing temporalis muscle, 519
 NEETENS, A.: See FRANCOIS, J.
 NIRANKARI, M. S.: See DAS, Tulsi
 NISBET, Alfred A.: A case for dressings and examining equipment, 119
- O**
- O'BRIEN, James Miles: Field screening test, 683
 ORMSBY, Hugh L.: See SCHIRMER, K. E.
 OWENS, William Councilman, KING, J. Harry, Jr., and WELLS, H. S.: Radioactive phosphorus for the detection of intraocular tumors, 507
- P**
- PATON, R. TOWNLEY: Eye-Bank program, 419
 PAVIA, J. Lijo: Arteriosclerosis, hypertension, and retinopathy: General and ocular improvement with hormonal treatment, 85
 FISCHER, Dohrmann K.: See COLYEAR, Bayard H., Jr.
- Q**
- QUIROZ, Carlos, BOYES, Truman, and SACKS-WILNER, Arthur: N.F.12: A new topical solution for external eye diseases, 1020
- R**
- RANDOLPH, M. Elliott: Alan Churchill Woods, M.D., 374
 REED, Howard, McDIARMID, Roper O., and DALY, Timothy: Removal of an intraocular copper foreign body: With complete recovery of vision, 128
 REESE, Algernon B.: The treatment of expanding lesions of the orbit: With particular reference to those arising in the lacrimal gland. The Seventh Arthur J. Bedell Lecture, 3
 REESE, Gilbert A.: Method for anchoring polyethylene tubes and re-establishing tear drainage, 1063
 REMEDI, G.: See URRETS-ZAVALLA, A., Jr.
 ROMAINE, Hunter H.: See LINCOFF, Harvey A.
 RONES, Benjamin: The tolerance of high tension in glaucoma, 408
 ROSEN, Morris: Diabetes mellitus with relative hyperopia: A case report, 680
 RUBIN, Milton R.: A simple fixation light: For the cardinal directions of gaze, 119
 RUBNER, Karl: See CHAMLIN, Max
 RUCKER, C. Wilbur, DYER, John A., SMITH, Dale C., and TAUB, Robert G.: The causes of acquired paralysis of the ocular muscles, 951
 RUEDEMANN, Albert D., Jr.: A corneoscleral epithelial inclusion cyst: A rarely described clinicopathologic entity, 316
 RYAN, Hugh: Postnatal cataracts in a premature infant, 310

S

- SABIN, Albert B.: Human toxoplasmosis: With special reference to intraocular inflammation: A critical review: The Sixth William Hamlin Wilder Memorial Lecture, 600
- SACKS-WILNER, Arthur: See QUIROZ, Carlos
- SAKANASHI, Ryuji: See MITSUI, Yukihiko
- SAYOC, Burgos T.: Simultaneous construction of the superior palpebral fold in ptosis operations, 1040
- SCHIRMER, K. E., and ORMSBY, Hugh L.: Experimental studies with acetazolamide in anaphylactic iridocyclitis in rabbits, 667
- SEZER, Neddet: Further investigations on the virus of Behçet's disease, 41
- SHAFFER, Robert N., and TOUR, Robert L.: A comparative study of gonioscopic methods, 256
- SHANNON, C. Richard: See MAUMENEÉ, A. Edward
- SHAPIRO, Irving: See WOLTER, J. Reimer
- SHEPHERD, Edwin M.: Reading efficiency of 809 average school children: The effect of reversal on their performance, 1039
- SHUKLA, K. N.: Acute concomitant squint with diplopia: Simulating bilateral lateral rectus paresis, 121
- SIEGER, D. H.: See HAGEDOORN, A.
- SJÖGREN, Henrik: Keratoplasty with punch forceps, 854
- SLOAN, LOUISE L.: An explanation for the poor performance of aphakic patients on the Harrington-Flocks screening test, 987
- SMITH, Dale C.: See RUCKER, C. Wilbur
- SNELL, Albert C., Jr.: Wound healing of the iris: In the presence of autologously transplanted granulation tissue, 499
- SORENSEN, E. John, and GILMORE, John E.: Cardiac arrest during strabismus surgery: Preliminary report 748
- SPAETH, Edmund B.: Further considerations on the surgical correction of blepharophimosis (epicanthus), 61
- STEIN, Harold A., and HENDERSON, John W.: Sarcoidosis of the orbit: A survey of the literature and report of a case, 1054
- STEINMETZ, Rodney D., and KEARNS, Thomas P.: H-R-R pseudoisochromatic plates: As a diagnostic aid in retrobulbar neuritis of multiple sclerosis, 833
- STOCKER, Frederick W.: Use of acetazolamide (Diamox): For endothelial corneal dystrophy and diseased corneal grafts, 203
- SUIE, Ted: See TAYLOR, Frank W.
- SWANLJUNG, Helvi, and BLODI, Frederick C.: Tonography in some provocative tests for glaucoma, 187

T

- TAIT, Edwin F.: Intraocular astigmatism, 813
- TAUB, Robert G.: See RUCKER, C. Wilbur

- TAYLOR, Frank W., and SUIE, Ted: Effect of trauma on the production of experimental uveitis: A report of preliminary studies, 299
- THEOBALD, Georgiana Dvorak, and KIRK, Harold Quentin: Aqueous pathways in some cases of glaucoma, 11
- TILLET, Charles W.: Posterior lamellar keratoplasty, 530
- TOUR, Robert L.: See SHAFFER, Robert N.
- TURNER, Cecil: See MANN, Ida
- TURTZ, Charles A.: Unilateral retinitis pigmentosa, 308

U

- URIST, Martin J.: Atypical accommodative esotropia, 955
- URRETS-ZAVALLIA, A., Jr., and REMEDI, G.: Ionometry of the aqueous humor: Report on the mode of action of acetazolamide, 197

V

- VAIL, Derrick: Primary glaucoma: Etiology and general considerations, 207
- VERHOEFF, F. H.: Are Moore's lightning streaks of serious portent?, 837
- VILLASECA, Alfredo: Pseudoparalysis of the medial rectus: In postoperative divergent squint, 124

W

- WELLS, H. S.: See OWENS, William Councilman
- WHITEHOUSE, Frank, Jr.: See WOLTER, J. Reimer
- WISE, George N.: See LINCOFF, Harvey A.
- WOLKOWICZ, Michael I., HALLETT, Joseph W., and LEOPOLD, Irving H.: C-reactive protein in ophthalmology: Clinical and experimental studies of its use, 942
- WOLKOWICZ, Michael I.: See HALLETT, Joseph W.
- WOLTER, J. Reimer: The pericytes of the choroid of the human eye, 990
- WOLTER, J. Reimer, SHAPIRO, Irving, and WHITEHOUSE, Frank, Jr.: Pathology of experimental primary herpetic keratitis in rabbits, 639
- WOOD, Ronald M.: See LIFF, Charles E.

Y

- YUDKIN, Arthur M.: Instrument to manage chronic gut sutures in ophthalmic surgery, 858

Z

- ZEAVIN, Bernard H., KING, Merrill J., and GOHD, Robert S.: A case of Behçet's disease, 55
- ZEKMAN, Theodore N., and LAZOR, Edward B.: Hot-air sterilizer: Results of multiple sterilization tests, 856